

Product datasheet for TP319651

MASP1 (NM_001879) Human Recombinant Protein

Product data:

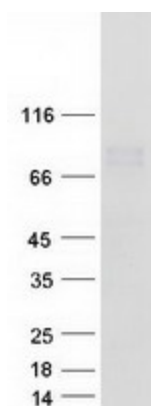
Product Type:	Recombinant Proteins
Description:	Recombinant protein of human mannan-binding lectin serine peptidase 1 (C4/C2 activating component of Ra-reactive factor) (MASP1), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC219651 representing NM_001879 Red=Cloning site Green=Tags(s)
	<p>MRWLLLYALCFSLSKASAHTVELNNMFGQIQSPGYDPSYPSDSEVTWNITVPDGFRIKLYFMHFNLESS YLCEYDYVKVETEDQVLATFCGRETTDTEQTPGQEVVLSPGSFMSITFRSDFSNEERFTGFDHYMAVDV DECKEREDEELSCDHYCHNYIGGGYCSFRGYLHTDNRTCRVECSNLTQRTGVTSPDFPNPYPKSS ECLYTIELEEGFMVNLQFEDIFDIEDHPEVPCPYDYIKIKVGPVKVLPFCGEKAPEISTQSHSVLILFH SDNSGENRGWRLSYRAAGNECPQLQPPVHGKIEPSQAKYFFKDQVLVSCDTGYKVLKDNVEMDTFQIECL KDGTSWNKIPTCKIVDCRAPGELEHGLITFSTRNLTYYKSEIKYSCQEPYKMLNNNTGIYTCSAQGVW MNKVLGRSLPTCLPVCGLPKFSRKL MARIFNGRPAQKGTTPWIAMLSHLNGQPFCGGSLGSSWIVTAAH CLHQSLDPEDPTLRDSDLLSPDFKILGKHWRLRSDENEQHLGVKHTLHPQYDPNTFENDVALVELLE SPVLNAFVMPICLPEGPQQEGAMVIVSGWGKQFLQRFPELMEIEIPIVDHSTCQKAYAPLKKKVTDRMI CAGEKEGGKDACAGDSGGPMVTLNRERQWYLVGTVSWGDCCGKKDTRYGVVSYIHHNKDWIQRVTGVRN</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-Myc/DDK
Predicted MW:	49 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_001870
Locus ID:	5648
UniProt ID:	P48740
RefSeq Size:	4353
Cytogenetics:	3q27.3
RefSeq ORF:	2097
Synonyms:	3MC1; CRARF; CRARF1; MAP-1; MAP1; MAp44; MASP; MASP-3; MASP3; PRSS5; RaRF
Summary:	This gene encodes a serine protease that functions as a component of the lectin pathway of complement activation. The complement pathway plays an essential role in the innate and adaptive immune response. The encoded protein is synthesized as a zymogen and is activated when it complexes with the pathogen recognition molecules of lectin pathway, the mannose-binding lectin and the ficolins. This protein is not directly involved in complement activation but may play a role as an amplifier of complement activation by cleaving complement C2 or by activating another complement serine protease, MASP-2. The encoded protein is also able to cleave fibrinogen and factor XIII and may be involved in coagulation. A splice variant of this gene which lacks the serine protease domain functions as an inhibitor of the complement pathway. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Apr 2010]
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Complement and coagulation cascades

Product images:



Coomassie blue staining of purified MASP1 protein (Cat# TP319651). The protein was produced from HEK293T cells transfected with MASP1 cDNA clone (Cat# [RC219651]) using MegaTran 2.0 (Cat# [TT210002]).